

**SEGA**

# **SINGLE UNIT PERISCOPE**

**ASSEMBLY INSTRUCTIONS  
AND PARTS CATALOG**

**[www.tilt.it](http://www.tilt.it)**

**SEGA**

OFFERS YOU THE UNBEATABLE COMBINATION OF QUALITY AND PLAY APPEAL IN AMUSEMENT GAMES

## ASSEMBLY INSTRUCTIONS

Fig. 3 shows the Assembled Periscope.

The assembly kit contains two sizes of bolts with washers attached to heads and nuts.

No additional washers are necessary with this type of bolts.

The small bolts are for the small angle iron, the thicker bolts are for the large.

### Assembly Order :

1. Assemble the back frame first as shown in Fig. 5.
2. Assemble the front frame as shown in Fig. 4.
3. Assemble the main side frames (left and right) and then connect, with screws, the rear and front framework to the side-frames as shown in Fig. 4.
4. Put the assembled roof frame on the top with the two extended bars (PS-1709) facing front. (Bars used for mounting periscope) See Fig. 4.
5. Screw the wood bars (PS-1728 and 1729) as shown in Fig. 4.
6. Mount the small angle bars (PS-1716) on the middle of the side frames as shown in Fig. 4.
7. Mount the small angles (PS-1717) from the small middle bar (PS-1716) to the bottom bar (PS-1705) as shown in Fig. 4.
8. Screw the back ground unit (target screen) on to the top frame as shown in Fig. 7.
9. Screw the roof on as shown in Fig. 6.
10. Mount the sub-assembled target unit (Chain Unit). This must be mounted so that the ships are at the correct height, when seen through the periscope as shown in Fig. 1. Make sure that the chain unit is not bent and the chain is freely moving when mounted. The side with the two drop-coils on it must be to the rear (Fig. 9). Make sure that the plunger stoppers on the coils are not bent inwards (Fig. 9).
11. Put the electric unit on the left inner side of the frame and screw it to the frame (Fig. 11).
12. Put the front door unit into the front frame, as shown in Fig. 8.
13. Put all the bulbs (6 Volt) into the sea base and put the sea base on top of the middle bars of the side frames—See Fig. 1 and Fig. 6.

14. Put the sea model (PS-0739) on the sea base as shown in Fig. 1 and 3.
15. Put the periscope on the top front bars, screw the periscope bracket (PS-0721) to the bottom of the periscope and bring it into proper position. The bracket must be horizontal. Drill two holes through the front panel and tighten this bracket. Line up the periscope and tighten the periscope base plate with bolts and nuts to the top frame. Check that the periscope is easy to turn by its handle, as shown in Fig. 10. Put the periscope cover board into the slot above the top wood bar. and fasten with wood screws as shown in Fig. 3.
16. Install the sub-assembled light box to the front pillar, screwing it on the frame from the rear side. See Fig. 2.
17. Plug all plugs into the electric unit (See Fig. 11). and check test the machine for proper operation. When the machine is working correctly, install the lower wooden frames left and right. See Fig. 14. Use the right size chromed bolts (there are different lengths) and from inside the correct size brackets (there are three kinds of brackets). then, put the upper wooden frame left and right as well as lower framework. See Fig. 13.
18. Put the back plate panel to the back frame. See Fig. 3.
19. Put the rear top plate (PS-0732) on top. See Fig. 3.
20. Insert the window glass to the wooden frame sash. See Fig. 1.
21. Screw the aluminum angles (PS-0734 & 0735) on the left and right front edges. See Figs. 1 and 3.

### NUMBER SHOWS ASSEMBLY ORDER

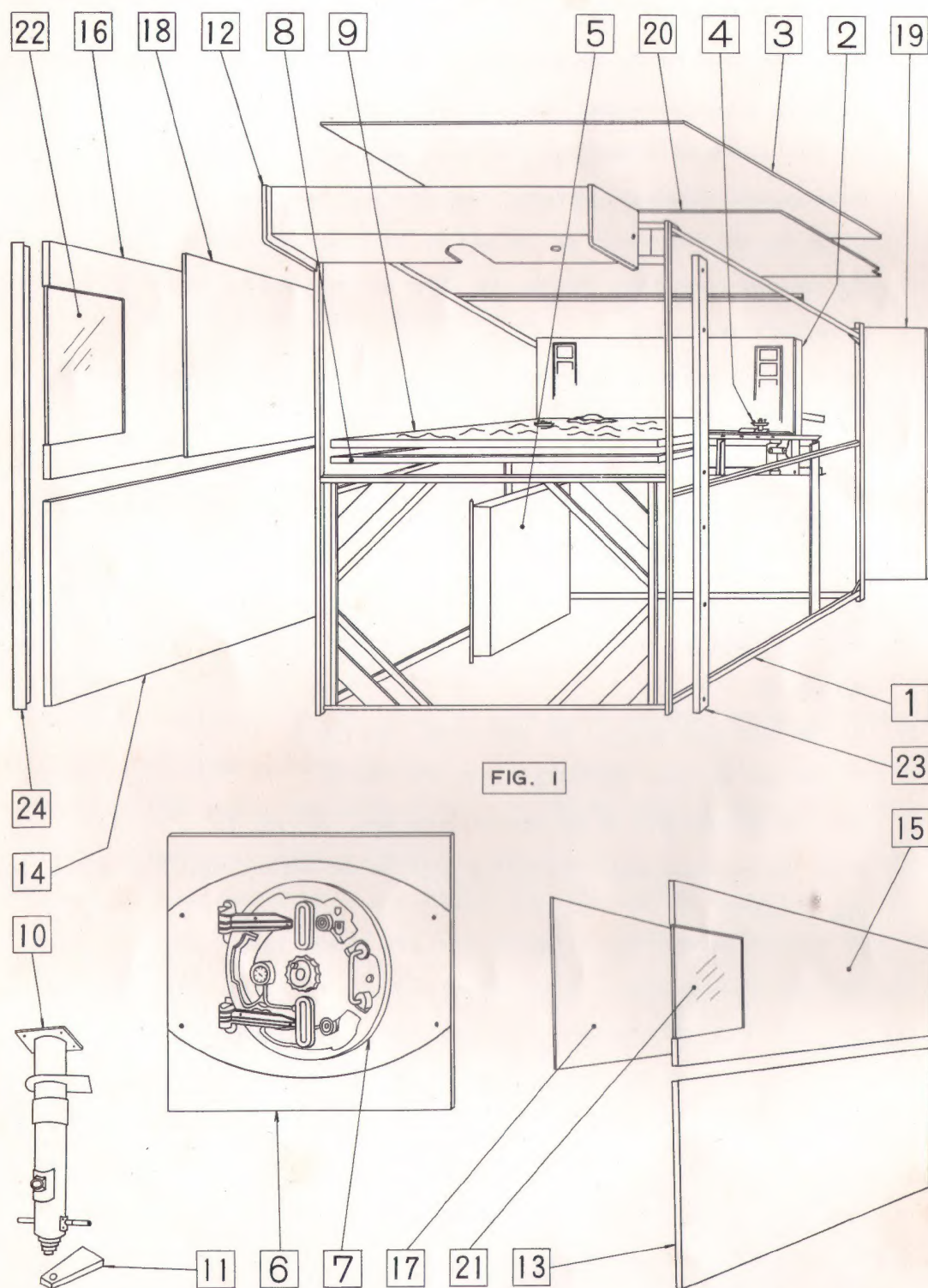
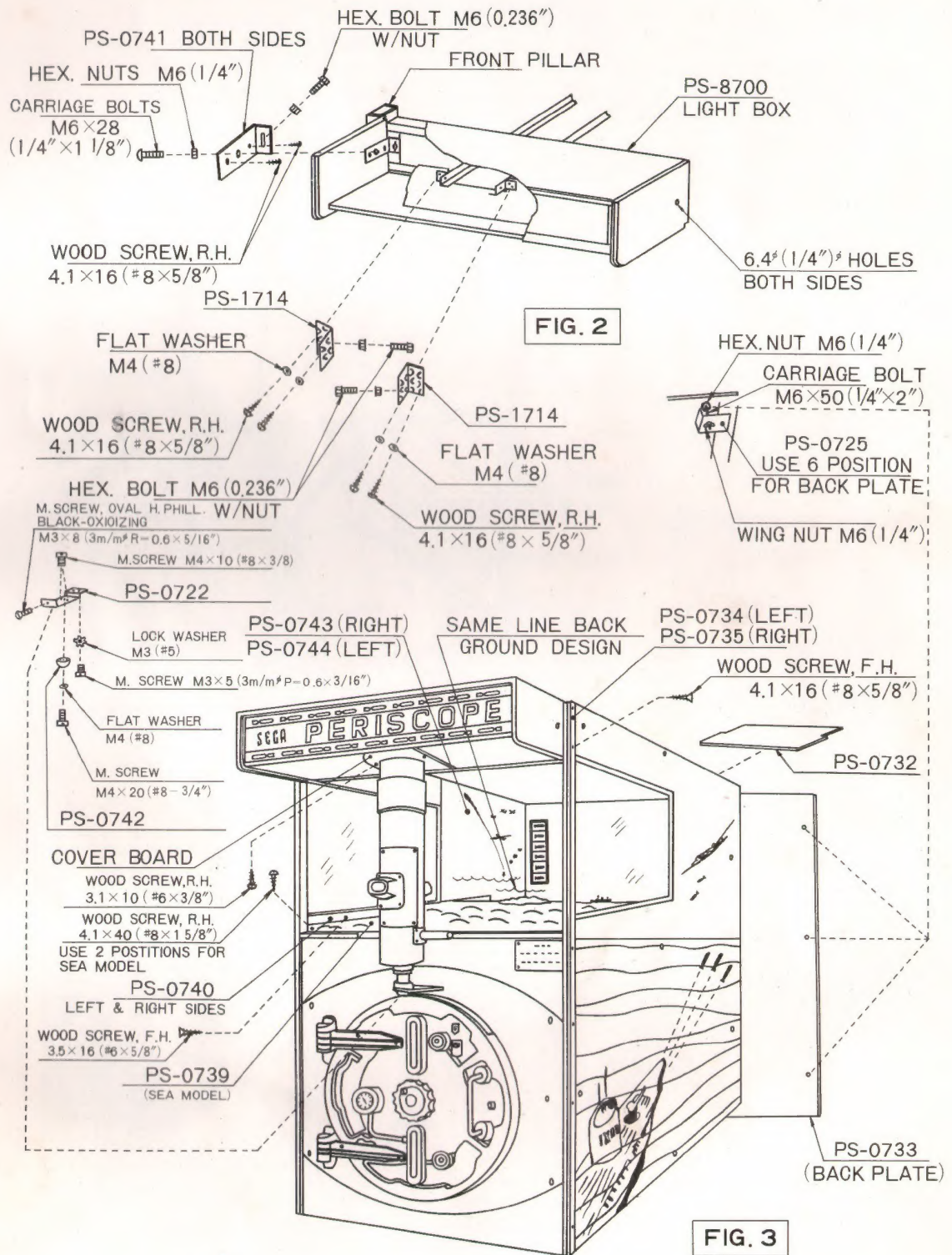


FIG. 1

SEGA PARTS CATALOG

M. ....Machine	R. ....Round	F. ....Flat
T. ....Truss	C. ....Cheese	P. ....Pan
H. ....Head	Phill. ....Phillips	Ext. ....External
Hex. ....Hexagon	Ass'y ....Assembly	



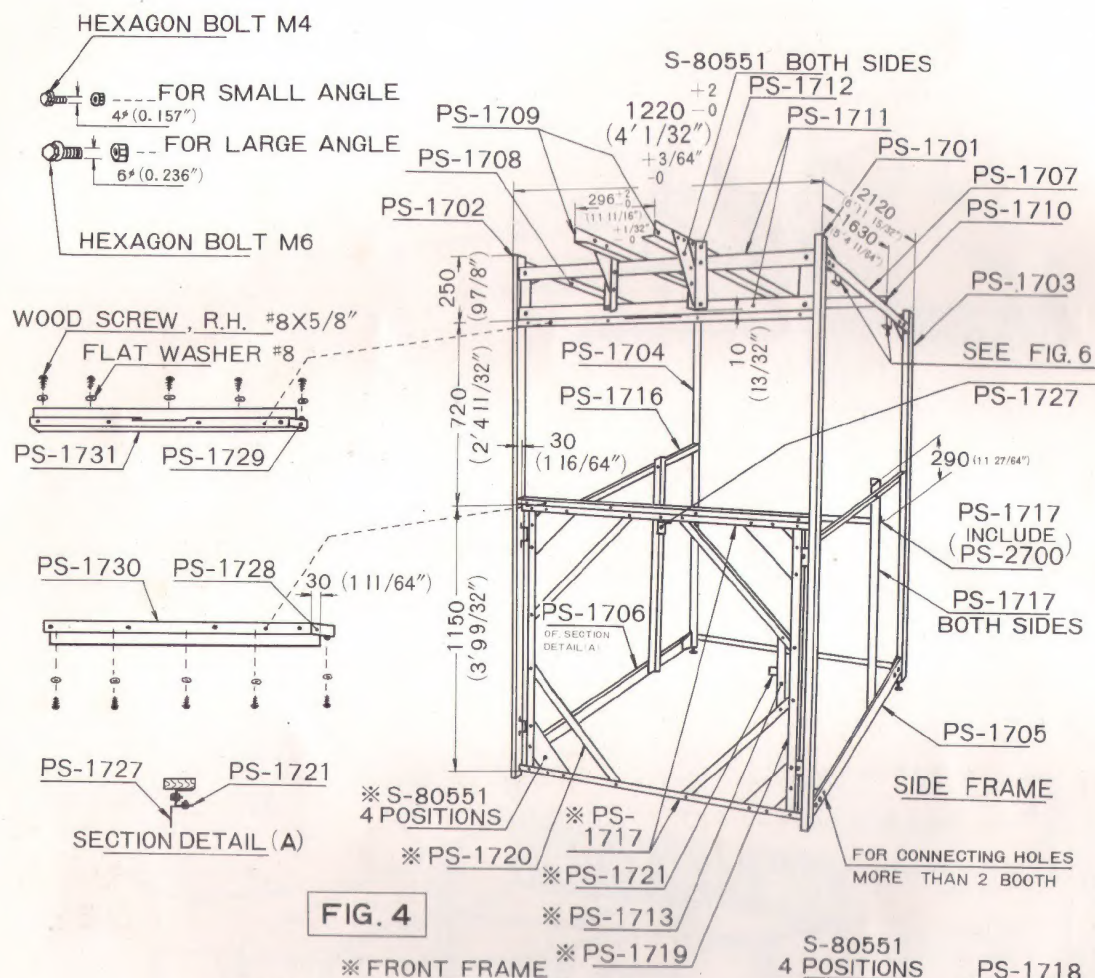


FIG. 4

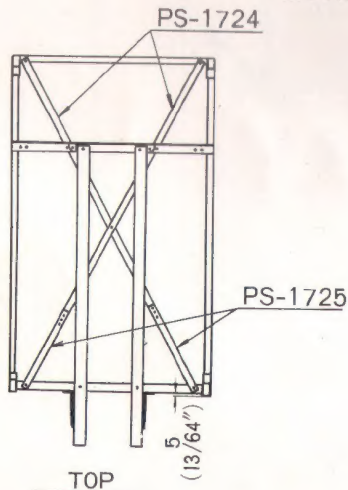
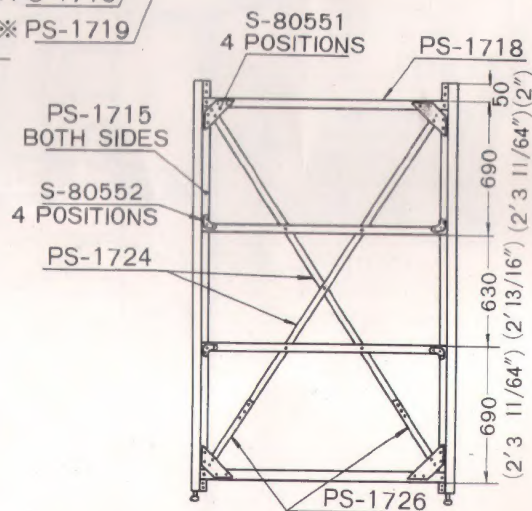
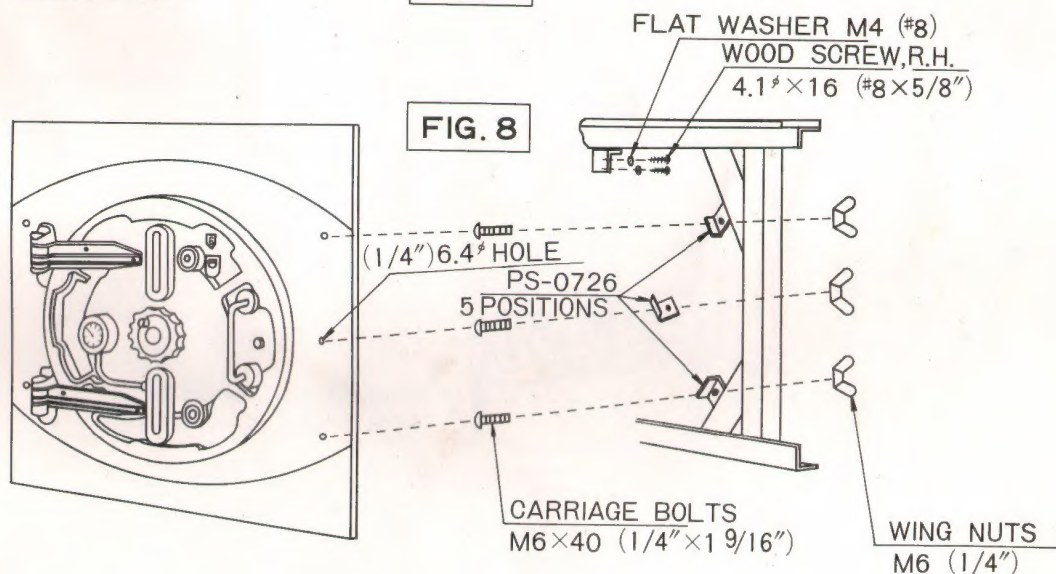
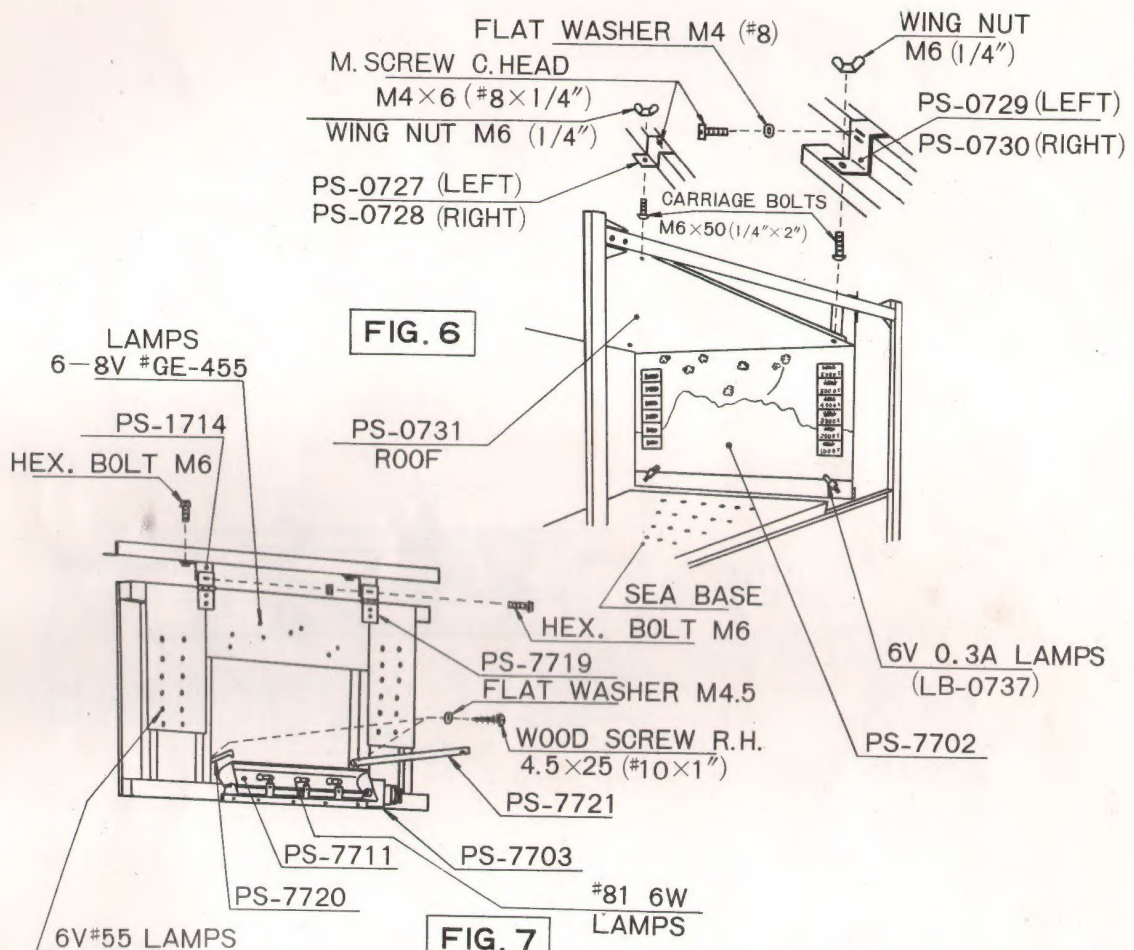
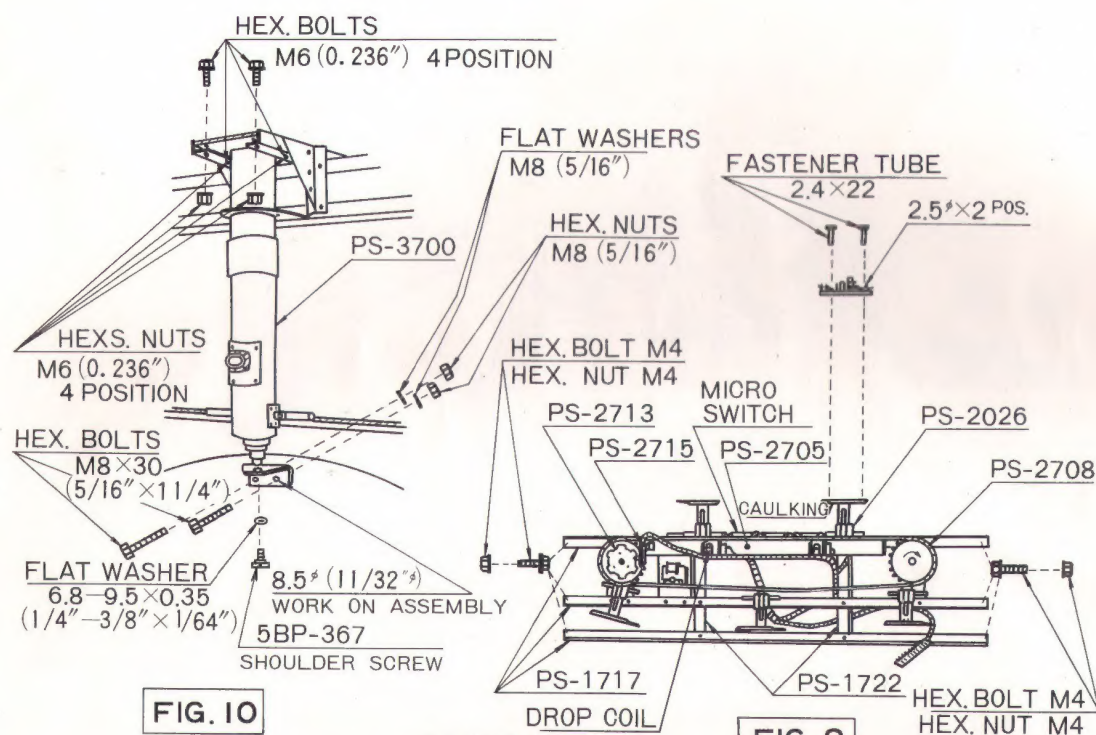


FIG. 5

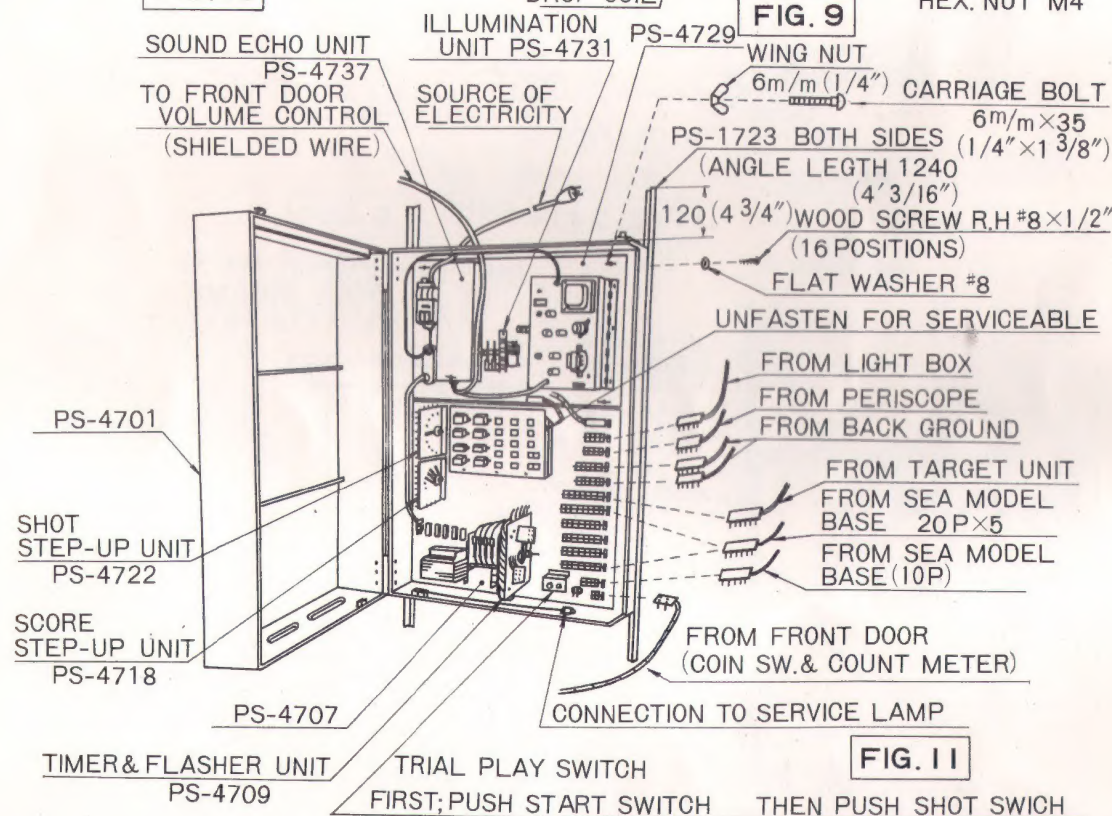


BACK CONSTRUCTION  
SEE OUT SIDE OF BACK.





**FIG. 10**



**FIG. 11**

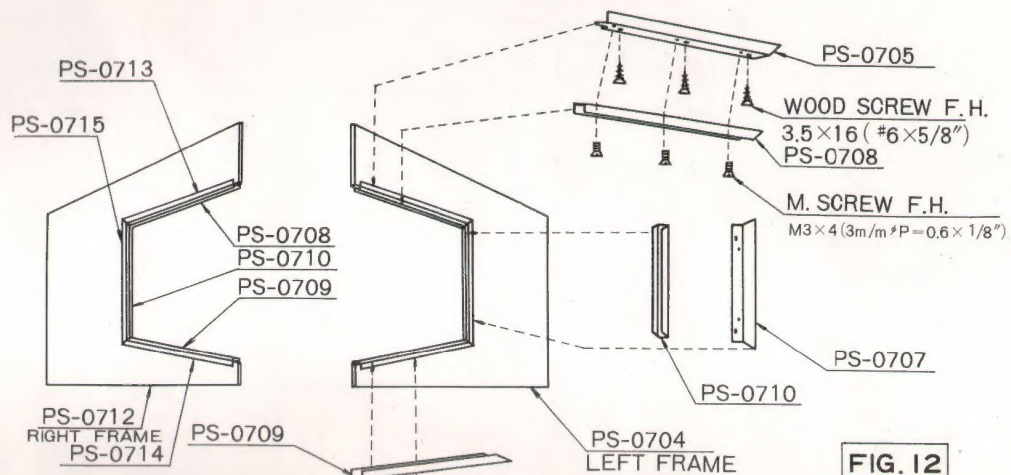


FIG. 12

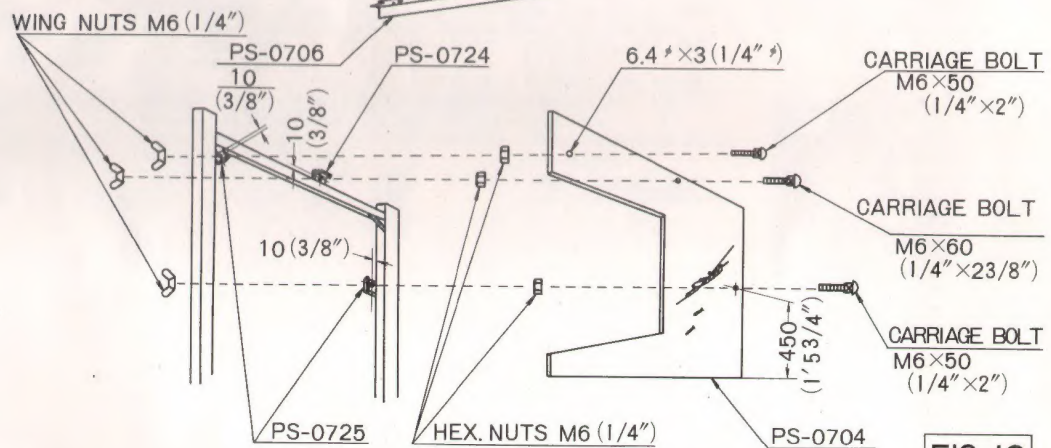


FIG. 13

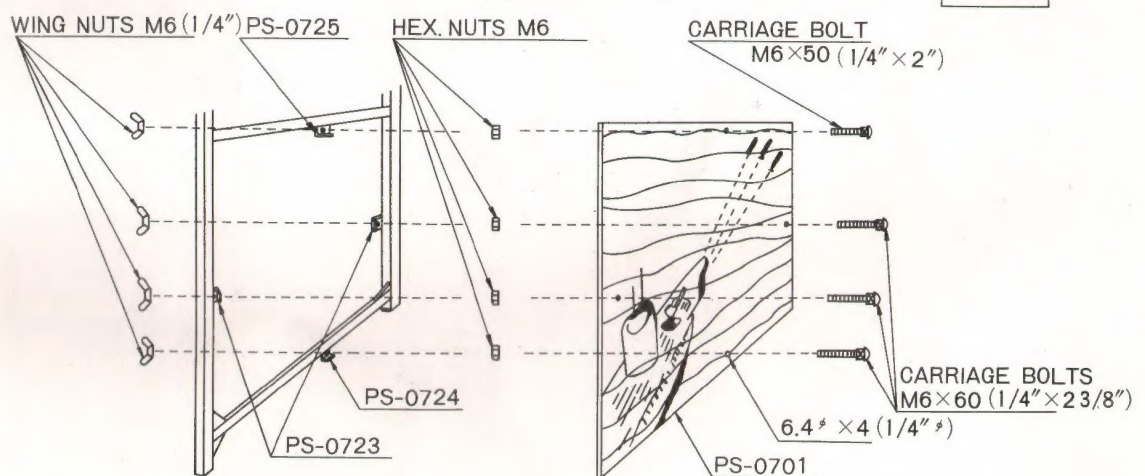
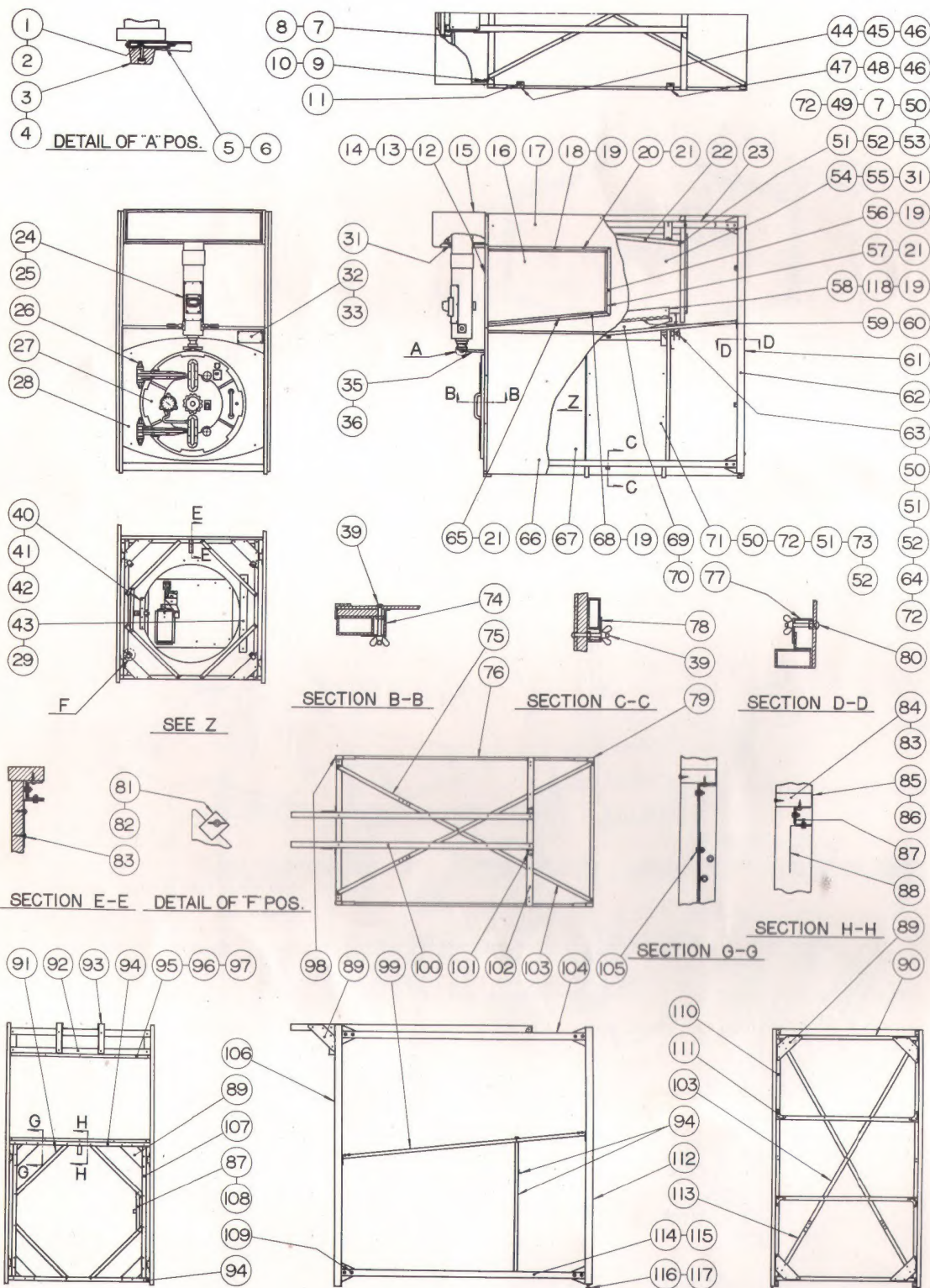


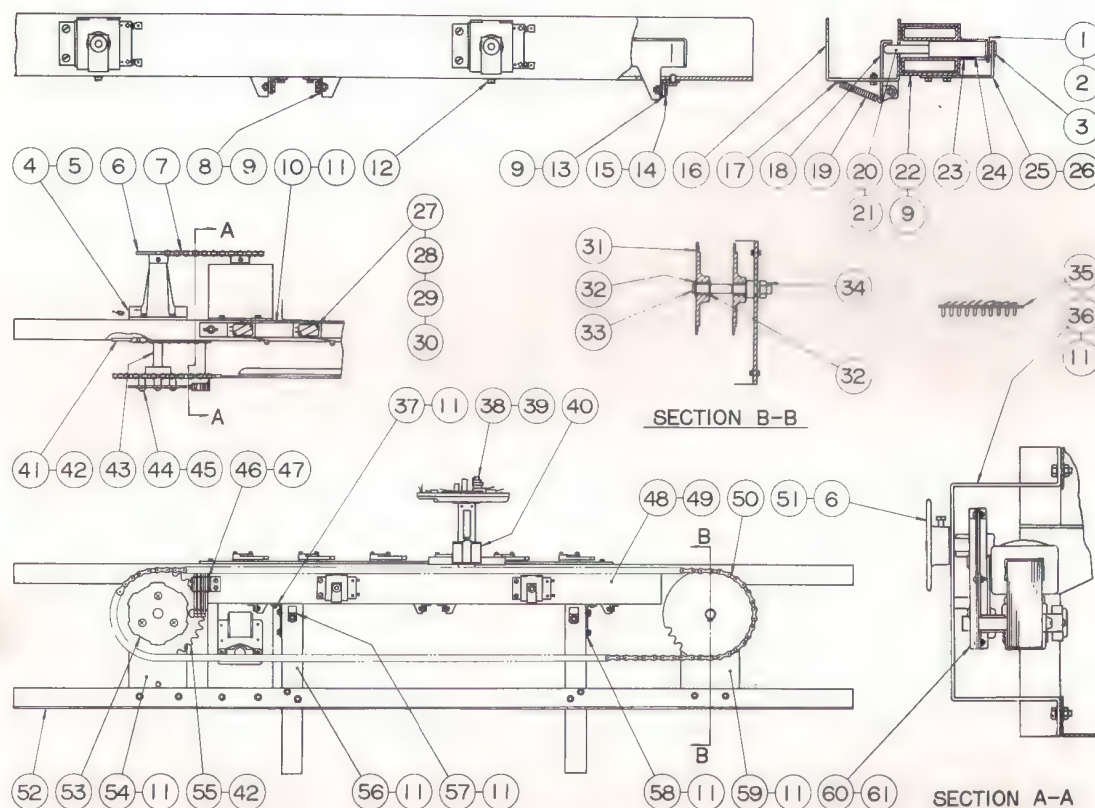
FIG. 14



# PARTS LIST CABINET ASSEMBLY (2)

# PERISCOPE

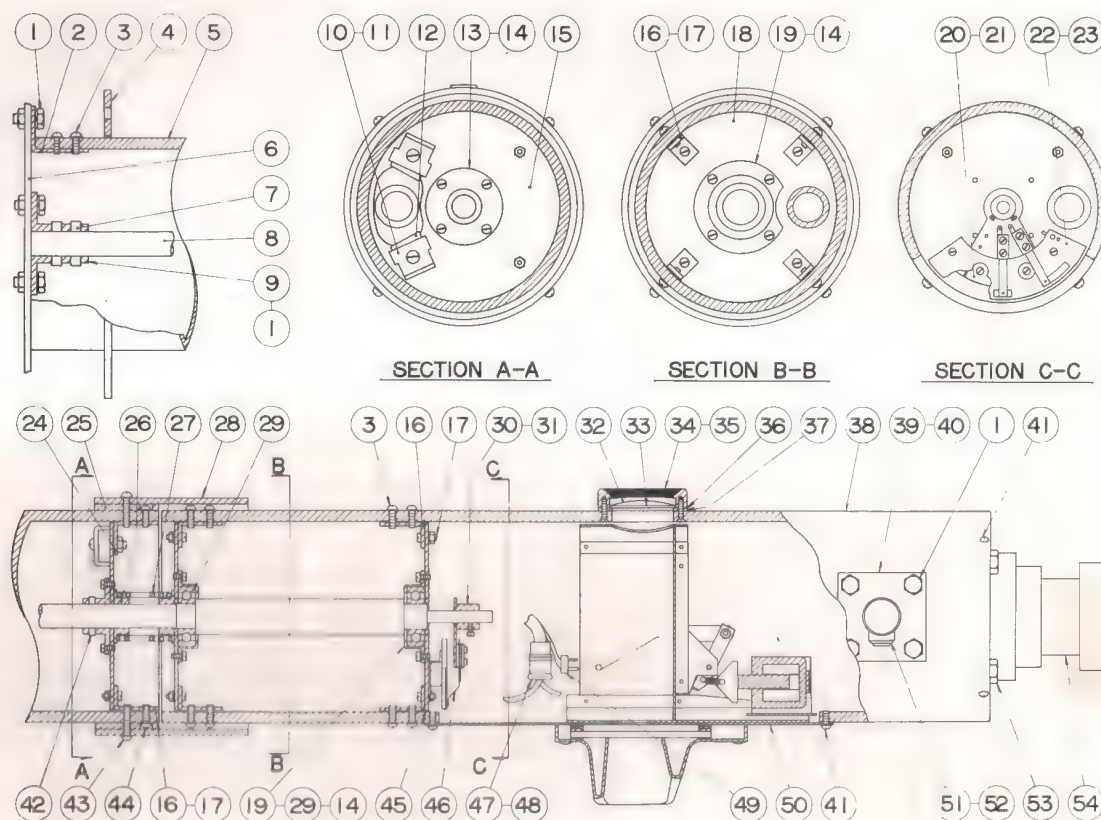
Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-0755	Shoulder Screw	46	111-201	M. Screw, C.H. M4×6	83	122-075	(Non-Hole) M6
2	144-017	Flat Washer 6.8-9.5×0.35	47	144-078	Flat Washer M4			Wood Screw, R.H. Phill.
3	PS-0742	Rubber Foot	48	144-167	Lock Washer, Ext. M4			4.1×16
4	111-205	M. Screw, C.H. M4×20	49	PS-0729	Roof Hanger, Rear Left		144-122	Flat Washer 4.4-16×1.6
	144-078	Flat Washer M4	50	PS-0730	Roof Hanger, Rear Right	84	PS-1728	Front Beam, Lower
	111-203	M. Screw, C.H. M4×10	51	PS-7700	Back Ground Ass'y	85	PS-1730	Beam Channel, Lower
5	PS-0722	Bumper Bracket			(See page 14 for details)	86	122-080	Wood Screw, R.H. Phill.
6	111-194	M. Screw, C.H. M3×5	52	80309	Sticker, 240V			3.1×16
	111-205	M. Screw, C.H. M4×20	53	S-91592	Terminal, 2P Barrier Type, w/Screws	87	PS-1721	Veny Angle, Cadet, 30
	144-135	Lock Washer, Ext. M3	54	S-91361	Terminal Lug	88	PS-1727	Front Frame Retainer
7	PS-1714	Veny Angle, Standard, 50	55	111-637	Hex. Bolt, for Veny Angle M6×18	89	S-80551	Gusset Plate, Standard
8	111-637	Hex. Bolt, for Veny Angle M6×18	56	133-094	Hex. Nut, for Veny Angle M6	90	PS-1718	Veny Angle, Cadet, 1155
	122-075	Wood Screw, R.H. Phill. 4.1×16	57	122-064	Wood Screw, R.H. Phill. 3.1×13	91	PS-1720	Veny Angle, Cadet, 630
	133-094	Hex. Nut, for Veny Angle M6	58	PS-0743	Ornament Plate, Right	92	PS-1711	Veny Angle, Standard, 1160
	144-122	Flat Washer 4.4-16×1.6	59	PS-0744	Ornament Plate, Left	93	PS-1712	Veny Angle, Standard, 245
9	PS-0741	Light Box Bracket		PS-0707	Window Sash, Rear Left	94	PS-1717	Veny Angle, Cadet, 1160
10	111-637	Hex. Bolt, for Veny Angle M6×18		PS-0715	Window Sash, Rear Right	95	PS-1729	Front Beam, Upper
	122-075	Wood Screw, R.H. Phill. 4.1×16		PS-0740	Guide Channel, Rear	96	PS-1731	Beam Channel, Upper
	133-094	Hex. Nut, for Veny angle M6		PS-0739-A	Sea Model	97	122-075	Wood Screw, R.H. Phill. 4.1×16
	144-122	Flat Washer 4.4-16×1.6		PS-2051	Plamodel, "Senkan", Yamato Type		122-080	Wood Screw, R.H. Phill. 3.1×16
	111-511	Carriage Bolt, Chromed M6×28		PS-2052	Plamodel, "Senkan", Haruna Type		144-122	Flat Washer 4.4-16×1.6
11	133-003	Hex. Nut M6		PS-2053	Plamodel, "Senkan", Nagato Type	98	PS-1702	Front Pillar, Right
	111-638	Carriage Bolt, Chromed M6×50		90793	Lamp Socket	99	PS-1716	Veny Angle, Cadet, 2010
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6		S-91409	Tip Connector, 1P, Red	100	PS-1709	Veny Angle, Standard, 1970
12	PS-0734	Corner Angle, Left		S-91570	Bulb, 6V, #55, Red	101	S-80553	Cleat
13	PS-0735	Corner Angle, Right	60	122-098	Wood Screw, R.H. Phill. 4.1×40	102	PS-1710	Veny Angle, Standard, 1220
14	122-078	Wood Screw, F.H. Phill. 4.1×16		111-192	M. Screw, C.H. M3×8	103	PS-1724	Veny Flat, Cadet, 1800
15	PS-8700	Light Box Ass'y (See page 15 for details)		133-029	Hex. Nut M3	104	PS-1707	Side Beam, Upper Left
16	PS-0736	Window Glass	61	PS-0733	Back Plate	105	111-636	Hex. Bolt, for Veny Angle M4×10
17	PS-0712	Wooden Frame, Upper Left	62	PS-1700	Frame Construction Ass'y (See details)		122-075	Wood Screw, R.H. Phill. 4.1×16
18	PS-0705	Window Sash, Upper Left	63	PS-2700	Target Conveyor Ass'y (See page 11 for details)	106	PS-1701	Front Pillar, Left
19	PS-0713	Window Sash, Upper Right	64	144-078	Flat Washer M4	107	PS-1719	Veny Angle, Cadet, 1145
	122-065	Wood Screw, F.H. Phill. 3.5×16		111-198	M. Screw, C.H. M3×16	108	PS-1713	Veny Angle, Cadet, 420
20	PS-0708	Guide Channel Upper		133-029	Hex. Nut M3	109	111-637	Hex. Bolt, for Veny Angle M6×18
21	111-225	M. Screw, F.H. M3×4	65	PS-0709	Guide Channel Lower		122-080	Wood Screw, R.H. Phill. 3.1×16
22	PS-0731	Roof	66	PS-0701	Wooden Frame, Lower Left		133-093	Hex. Nut, for Veny Angle M4
23	PS-0732	Roof Plate, Rear	67	PS-0702	Wooden Frame, Lower Right	110	PS-1715	Veny Angle, Cadet, 2110
24	PS-3700	Periscope Ass'y (See page 12 for details)	68	PS-0706	Window Sash, Lower Left	111	S-80552	Gusset Plate, Cadet
	111-637	Hex. Bolt, for Veny Angle M6×18	69	PS-0738	Window Sash, Lower Right	112	PS-1703	Rear Pillar, Left
	133-094	Hex. Nut, for Veny Angle M6		91227	Base, Sea Model	113	PS-1726	Veny Flat, Cadet, 500
	111-138	Hex. Bolt M8×45		91536	Lamp Socket w/Clamp	114	PS-1705	Side Beam, Lower Left
	133-004	Hex. Nut M8		20SP-20	Lamp Socket	115	PS-1706	Side Beam, Lower Right
	144-030	Spring Washer M8 (#3)		S-90158	Plug Strip Type, 20P	116	M-163-4(L)	Leg Adjuster
27	PS-6700	Hatch & Coin Chute Ass'y (See page 13 for details)		S-91538	Bulb, 6-8V, 6W, #81, Red	117	133-006	Hex. Nut 3/8-16
28	PS-0717	Wooden Frame, Front		S-91303	Clamp, Cord, 25m/m I.D.	118	PS-0753	Side Speculum, Left
29	122-004	Wood Screw, R.H. Phill. 3.5×16		S-91558	Lamp Socket, 250V, 6A B22D		80621	Sticker, Target Conveyor Motor
31	122-042	Wood Screw, R.H. Phill. 3.1×10	70	122-042	Wood Screw, R.H. Phill. 3.1×10	80622		Sticker, Explosion Motor
32	PS-0007	Instruction Plate, 6d.		122-085	Wood Screw, R.H. Phill. 3.5×13	80623		Sticker, Sound Echo Unit
33	122-064	Wood Screw, R.H. Phill. 3.1×13	71	PS-4700	Electrical Unit Ass'y (See page 16 for details)	80624		Sticker, Shot Step-Up Unit
35	PS-0721	Periscope Bracket	72	91593	Terminal Cover, 2P	80625		Sticker, Score Step-Up Unit
36	111-327	Hex. Bolt M8×30	73	111-636	Hex. Bolt, for Veny Angle M4×10	80626		Sticker, Cam Switch, 1.3.4.5.2
	133-004	Hex. Nut M8		133-093	Hex. Nut, for Veny Angle M4	80627		Sticker, Illumination Motor
	144-054	Flat Washer M8		122-064	Wood Screw, R.H. Phill. 3.1×13	80629		Sticker, Periscope Assembly
39	111-640	Carriage Bolt, Chromed M6×60	74	PS-0723	Side Frame Holder, #1	80630		Sticker, Service Switch
	133-003	Hex. Nut M6	75	PS-1725	Veny Flat, Cadet, 680	80631		Sticker, Service Light Connector
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6	76	PS-1708	Side Beam, Upper Right	80632		Sticker, Pull to Open
40	PS-0719	Tongue Retainer Bracket	77	PS-0725	Side Frame Holder, #3	80633		Sticker, Pee Sound Unit
41	PS-0720	Catch Bracket	78	PS-0724	Side Frame Holder, #2	80634		Sticker, Volume Control
42	111-201	M. Screw, C.H. M4×6	79	PS-1704	Rear Pillar, Right	80635		Sticker, Torpedo & Explosion
	122-004	Wood Screw, R.H. Phill. 3.5×16	80	111-638	Carriage Bolt, Chromed M6×50	80636		Sticker, A Course Selection
	144-167	Lock Washer, Ext. M4		133-003	Hex. Nut M6	80637		Sticker, B Course Selection
43	PS-0718	Guard Plate		133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6	80638		Sticker, C Course Selection
44	PS-0727	Roof Hanger, Front Left	81	PS-0726	Front Frame Holder	80639		Sticker, D Course Selection
45	PS-0728	Roof Hanger, Front Right	82	111-639	Carriage Bolt, Chromed M6×40	80640		Sticker, E Course Selection
				133-043A	Wing Nut, Wing Expansion 23	80641		Sticker, F Target Unit



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-2021	Spring Retainer	21	PS-2020	Shot Plunger	43	PS-2717	Main Shaft
2	111-245	M. Screw, F.H. M4×10	22	PS-2018	Shot Coil Ass'y	44	PS-2714	Spacer Post
3	S-91020	Rubber Grommet, 5ø×8ø×4.5	23	PS-2022	Compression Spring	45	111-566	M. Screw, R.H. Phill. M5×22
4	PS-2035	Moulding Bearing	24	PS-2023	Sleeve	46	144-105	Flat Washer M5
5	111-095	Hex. Bolt M6×30	25	PS-2024	Bumper Bracket	47	PS-2715	Cam Switch Ass'y
	133-003	Hex. Nut M6	26	111-194	M. Screw, C.H. M3×5	48	111-194	M. Screw, C.H. M3×5
	144-029	Spring Washer M6 (#3)		144-135	Lock Washer, Ext. M3		144-135	Lock Washer, Ext. M3
	144-053	Flat Washer M6	27	PS-2049	Paper Insulator	49	PS-2705	Target Shot Ass'y (See details)
6	PS-2710	Motor Sprocket	28	S-91063	Actuator, Micro Switch	50	111-203	M. Screw, C.H. M4×10
7	PS-2709	Drive Chain	29	S-91064	Switch, Micro Type	51	111-244	M. Screw, F.H. M4×6
8	PS-2017	Push Bar Bracket, Left	30	111-220	M. Screw, F.H. M3×16	52	133-017	Hex. Nut M4
9	111-195	M. Screw, C.H. M3×6		133-029	Hex. Nut M3	53	144-076	Spring Washer M4 (#2)
	144-135	Lock Washer, Ext. M3	31	PS-2046	Driven Sprocket	54	PS-2708	Conveyor Chain
10	PS-2712	Switch Base	32	144-065	Snap Ring, Outside Type 13 m/m	55	111-444	Set Screw, C.H., Special M4×12
11	111-636	Hex. Bolt, for Chevron Angle M4×10	33	PS-2047	Shaft, Driven Sprocket	56	PS-1717	Chevron Angle, Cadet, 1160
	133-093	Hex. Nut, for Chevron Angle M4	34	133-032	Hex. Nut M12	57	PS-2713	Cam
				144-031	Spring Washer M12 (#3)	58	PS-2703	Bearing Mounting Plate
12	111-198	M. Screw, C.H. M3×16	35	20SP-20	Plug, Strip Type, 20P	59	PS-2718	Drive Sprocket, Outer
	133-029	Hex. Nut M3	36	PS-2711	Motor Bracket	60	PS-1722	Chevron Angle, Cadet, 290
	144-057	Flat Washer M3	37	PS-2701	Channel Bracket, Left		S-90181	Clamp, Cord, Plastic, 8 m/m I.D.
	144-135	Lock Washer, Ext. M3	38	PS-2051	Plamodel, "Senkan", Yamato Type	58	PS-2702	Channel Bracket, Right
13	PS-2016	Push Bar Bracket, Right		PS-2052	Plamodel, "Senkan", Haruna Type	59	PS-2704	Base, Shaft Stand
14	AT-4044	Shoulder Screw			Plamodel, "Senkan", Nagato Type	60	91496X	Motor, 220V, 240V, AC 50 Cycles, 12 R.P.M.
15	133-029	Hex. Nut M3		PS-2053		61	111-597	M. Screw, Pan H. Phill., ISO M4×10
	144-135	Lock Washer, Ext. M3	39	111-194	M. Screw, C.H. M3×5		111-566	M. Screw, R.H. Phill. M5×22
16	PS-2706	Chain Guide Channel		144-057	Flat Washer M3		144-076	Spring Washer M4 (#2)
17	155-014	Cotter Pin 1.6×12	40	PS-2026	Target Ass'y			
18	PS-2707	Target Push Bar	41	PS-2038	Drive Sprocket			
19	6U-107	Extension Spring	42	155-041	Roll Pin 4×36			
20	PS-2019	Plunger Boss						

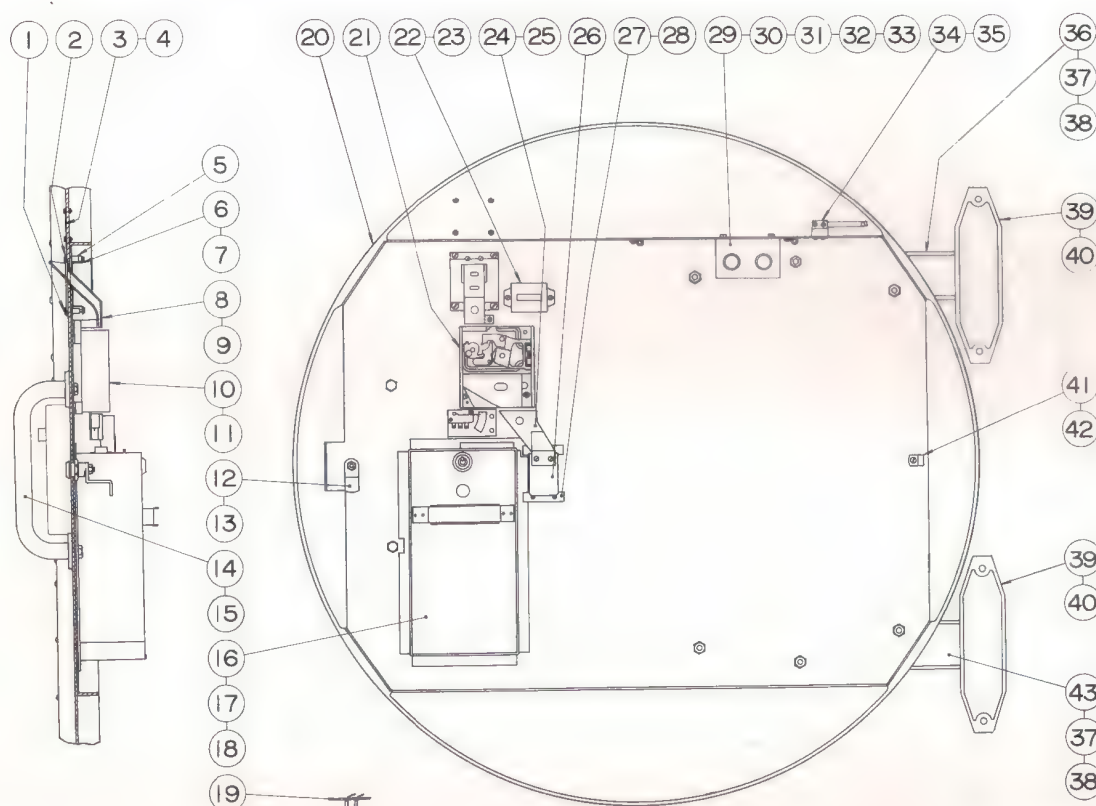
# PARTS LIST PERISCOPE ASSEMBLY

# PERISCOPE



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	111-531	Hex. Bolt, Black-Oxidizing M8×20	21	144-167	Lock Washer, Ext. M4	44	111-530	M. Screw, T.H. Phill. M5×16
	133-004	Hex. Nut M8	22	PS-3028	Scanning Disc Ass'y		144-090	Spring Washer M5 (#2)
	144-030	Spring Washer M8 (#3)	23	111-202	M. Screw, C.H. M4×8	45	PS-3010	Flange Disc
2	PS-3011	Top Hanger		144-078	Flat Washer M4	46	PS-3030	Scanning Wiper Switch Ass'y
3	111-521	M. Screw, R.H. Phill., Chromed M5×16	24	PS-3012	Disc Hanger, Rubber Bumper	47	S-91204	Socket, Small Type, 6P
	144-090	Spring Washer M5 (#2)	25	PS-3016	Rubber Plate	48	S-91205	Plug, Small Type, 6P
4	PS-3701	Periscope Flange	26	PS-3006	Spring Retainer	49	S-91062-2	Plug, 2P
5	PS-3014	Upper Body	27	PS-3007	Compression Spring	50	PS-3031	Finder & Shutter Mechanism Ass'y
6	PS-3001	Top Mounting Plate	28	PS-3017	Middle Body	51	S-91206	Switch, Push Button, Baby Type
7	155-073	Roll Pin 8×36	29	S-80400	Ball Bearing 20×47×14	52	111-252	Set Screw, Hex. Socket, Cup Point M3×3
8	PS-3003	Shaft	30	PS-3029	Scanning Wiper Arm Ass'y	53	111-532	Hex. Bolt, Black-Oxidizing M10×20
9	PS-3002	Shaft Retainer, Upper	31	111-443	Set Screw, C.H., Special M4×8		133-027X	Hex. Nut, ISO M10
10	2P-11601	Rubber Retainer	32	PS-3020	Lens	54	PS-3026	Shock Absorber
11	111-160	M. Screw, R.H. 1/4-20×25.4	33	PS-3021	Target Aiming			
	133-008	Hex. Nut 1/4-20	34	PS-3019	Lens Mounting Cap			
12	2P-11600	Rubber Bumper	35	111-284	M. Screw, F.H. M4×16			
13	PS-3005	Shaft Retainer, Middle		111-426	M. Screw, F.H. M4×20			
14	111-203	M. Screw, C.H. M4×10	36	PS-3022	Packing			
	144-076	Spring Washer M4 (#2)	37	PS-3023	Base, Lens Mounting Cap			
15	PS-3004	Top Disc	38	PS-3018	Lower Body			
16	PS-3013	Disc Hanger	39	PS-3024	Handle, Left			
17	111-204	M. Screw, C.H. M4×12	40	PS-3025	Handle, Right			
	133-017	Hex. Nut M4	41	111-520	M. Screw, R.H. Phill., Chromed M5×14			
	144-167	Lock Washer, Ext. M4		144-090	Spring Washer M5 (#2)			
18	PS-3008	Flange Disc & Pipe Ass'y	42	155-072	Roll Pin 5×32			
19	PS-3009	Bearing Retainer	43	111-522	M. Screw, R.H. Phill., Chromed M5×25			
20	PS-3027	Scanning Disc Holder		144-090	Spring Washer M5 (#2)			
21	111-202	M. Screw, C.H. M4×8						

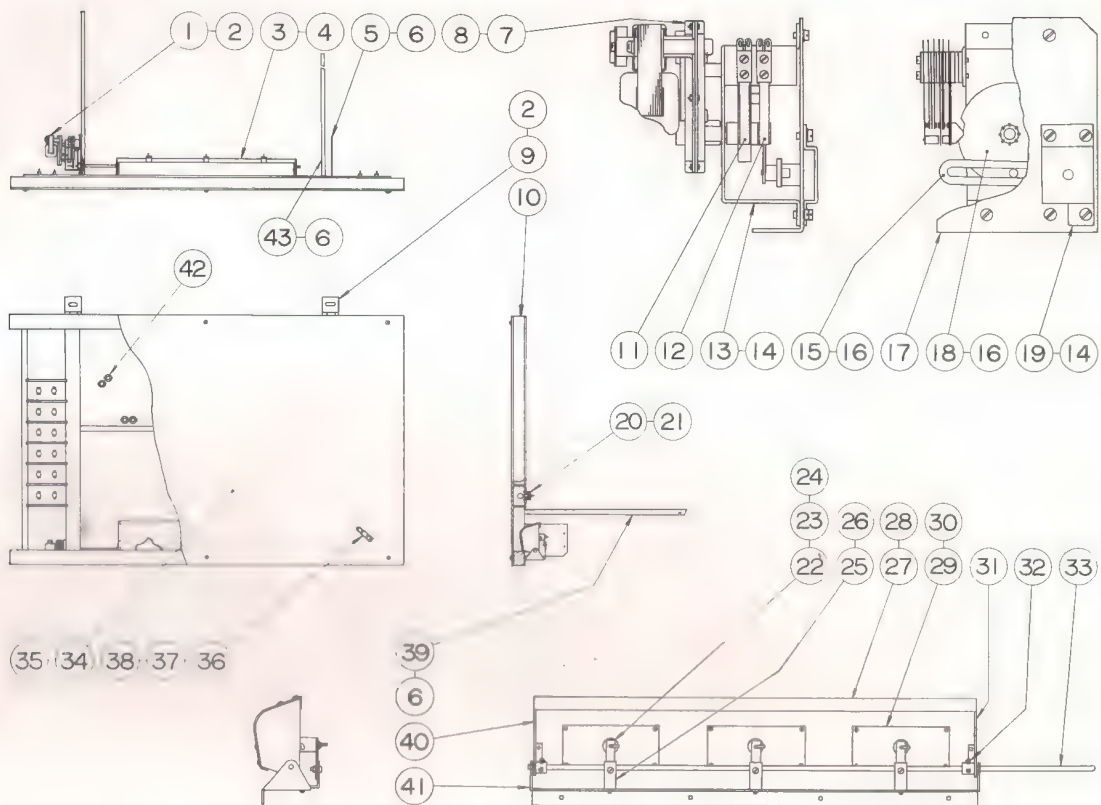
SEGA PARTS CATALOG



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	JG-7116	Gland Nut	20	PS-6701	Hatch Moulding	40	111-121	Hex. Bolt M8×35
2	PS-6005X	Coin Entry, 6d.	21	CC-2008	Coin Chute, Rejector Type, 6d.×1	133-004	Hex. Nut M8	
3	PS-0008	Denomination Plate, 6d.	22	90303-50	Electric Counter Mercury Type, 4 Digits, 50V	144-132	Spring Washer M8 (#2)	
4	111-422	M. Screw, C.H. M2×8	23	111-467	M. Screw, C.H. M4×5	41	S-90591	Clamp, Cord, Plastic, 5 m/m I.D.
	133-037	Hex. Nut M2		144-167	Lock Washer, Ext. M4	42	111-467	M. Screw, C.H. M4×5
	144-165	Lock Washer, Ext. M2	24	PS-6007	Reject Chute, One Coin Type		144-078	Flat Washer M4
5	PS-4112	Spacer Tube	25	111-195	M. Screw, C.H. M3×6	43	PS-6707	Hinge Casting Arm, Lower
6	PS-6006	Coin Entry Bracket		144-057	Flat Washer M3			
7	111-203	M. Screw, C.H. M4×10		144-135	Lock Washer, Ext. M3			
	144-078	Flat Washer M4	26	JG-7422	Reject Cup			
	144-167	Lock Washer, Ext. M4	27	PS-6008	Reject Cup Holder			
8	PS-6004	Upper Coin Chute	28	111-037	M. Screw, R.H. #8-32×9.5			
9	111-240	M. Screw, C.H. M3×3		144-078	Flat Washer M4			
	111-467	M. Screw, C.H. M4×5	29	PS-6710	Volume Control Bracket			
	144-057	Flat Washer M3	30	S-90595	Knob, 22 m/m			
	144-167	Lock Washer, Ext. M4	31	S-91541	Volume Control, A-100K Ohm			
10	PS-6002	Coin Chute Bracket Ass'y	32	S-91542	Volume Control, A-250K Ohm			
11	111-467	M. Screw, C.H. M4×5	33	111-195	M. Screw, C.H. M3×6			
	144-078	Flat Washer M4		144-135	Lock Washer, Ext. M3			
	144-167	Lock Washer, Ext. M4	34	PS-6712	Door Switch Ass'y			
12	PS-6711	Locking Tongue	35	111-195	M. Screw, C.H. M3×6			
13	CN-5028	Ace Cylinder Lock, Double Notch Type		133-029	Hex. Nut M3			
14	PS-6708	Door Handle		144-135	Lock Washer, Ext. M3			
15	111-097	Hex. Bolt M8×20	36	PS-6703	Hinge Casting Arm, Upper			
	144-132	Spring Washer M8 (#2)	37	PS-6705	Hinge Shaft			
16	PS-6709	Cash Box	38	111-301	M. Screw, C.H. M6×20			
17	1AB-10474-1	Ace Cylinder Lock		144-115	Spring Washer M6 (#2)			
18	BJ-1008	Locking Tongue	39	PS-6704	Hinge Casting, Basic			
19	2OSP-4	Plug, Strip Type, 4P						

# PARTS LIST BACK GRAND ASSEMBLY

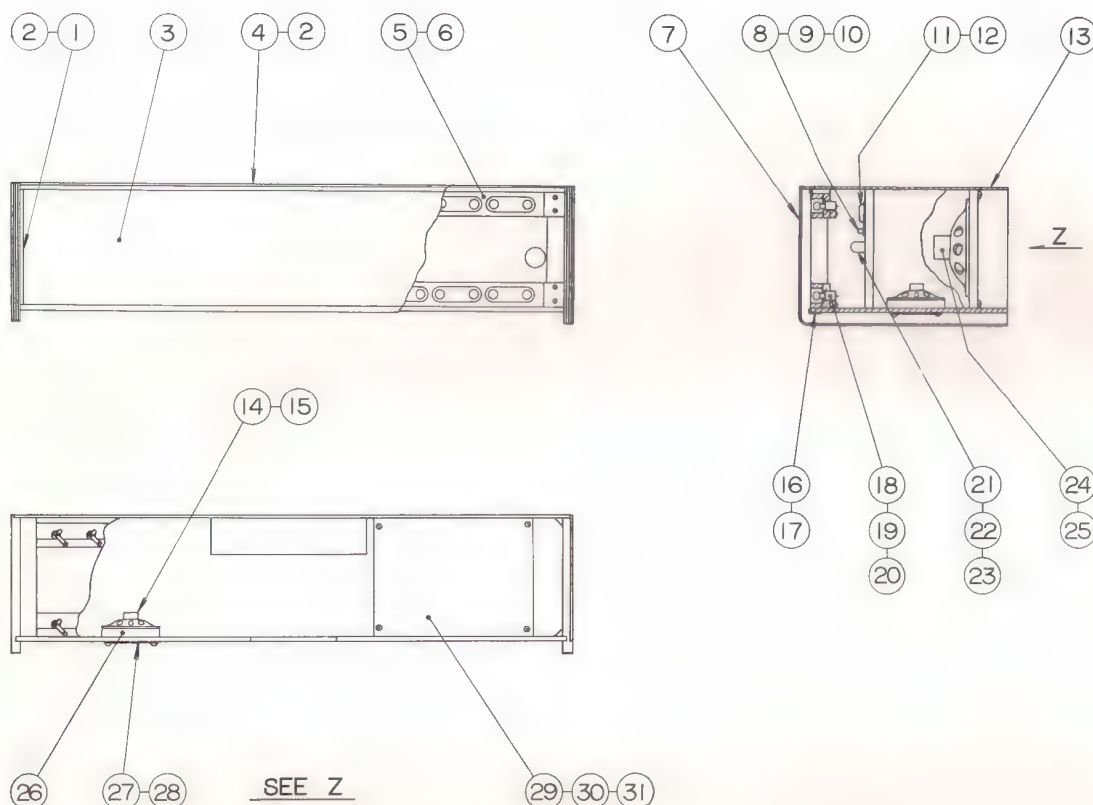
# PERISCOPE



Item	Part No.	Description
1	PS-7703	Explosion Motor Ass'y (See details)
2	122-082	Wood Screw, R.H. Phill. 4.1×20
3	PS-7711	Explosion Flasher Ass'y (See details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-7720	Hook Stay
6	122-127	Wood Screw, R.H. Phill. 4.5×25
7	144-173	Flat Washer, Small Type M4.5
8	91530	Motor, 240V, A.C. 50/60 Cycles, 16/20 R.P.M.
9	111-607	M. Screw, F.H. Phill., ISO M4×8
10	PS-7719	Hinge
11	PS-7701	Back Ground Base
12	PS-7710	Switch Ass'y, B
13	PS-7709	Switch Ass'y, A
14	PS-7704	Motor Bracket
15	111-201	M. Screw, C.H. M4×6
16	144-167	Lock Washer, Ext. M4
17	PS-7708	Guide Lever Ass'y
18	111-443	Set Screw, C.H., Special M4×8
19	PS-7705	Main Bracket
20	PS-7707	Cam Ass'y
21	PS-7706	Support Bracket
22	91227	Lamp Socket w/Clamp
23	S-90158	Bulb, 6V #55
24	91532	Lamp Socket
25	S-91533	Point Lamp, 6V, 3A
26	111-192	M. Screw, C.H. M3×8
27	133-029	Hex. Nut M3

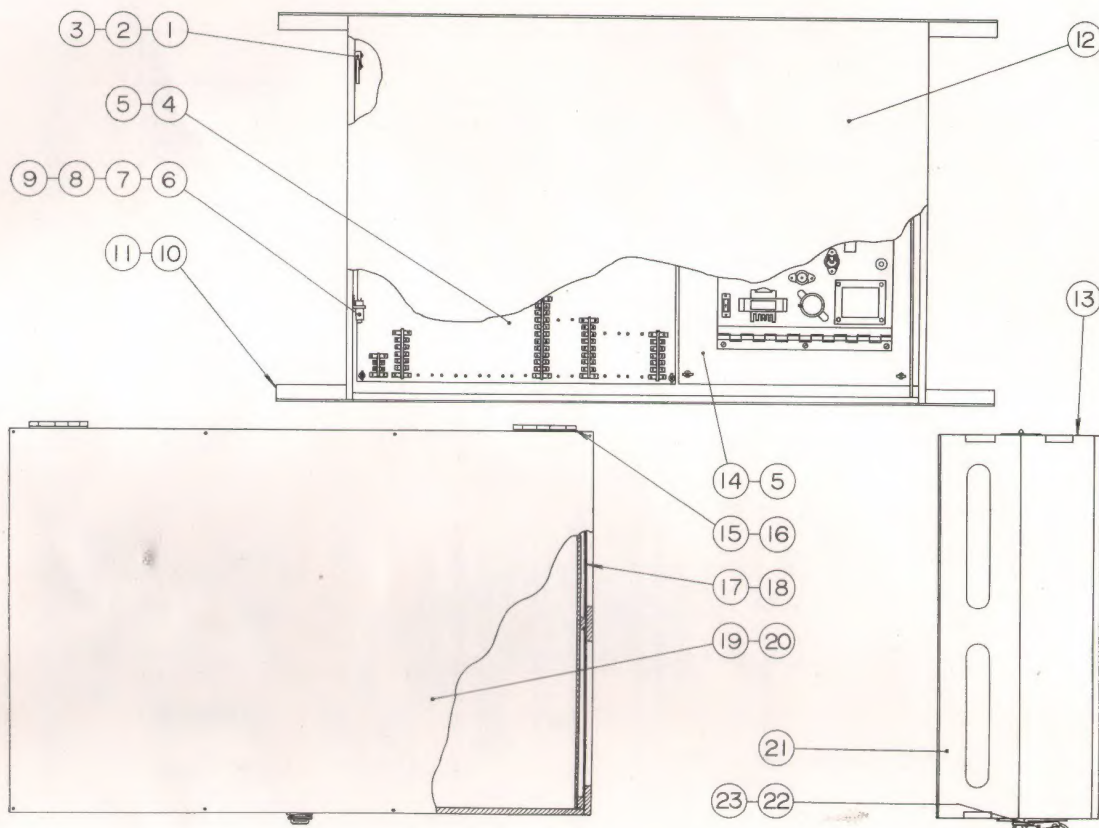
Item	Part No.	Description
28	144-057	Flat Washer M3
29	144-135	Lock Washer, Ext. M3
30	PS-7717	Lamp Bracket
31	111-194	M. Screw, C.H. M3×5
32	144-135	Lock Washer, Ext. M3
33	PS-7712	Explosion Lamp Cover
34	111-342	M. Screw, C.H. M4×4
35	144-167	Lock Washer, Ext. M4
36	144-078	Flat Washer M4
37	PS-7718	Explosion Model
38	111-187	M. Screw, C.H. M2×5
39	133-037	Hex. Nut M2
40	144-165	Lock Washer, Ext. M2
41	PS-7713	Side Plate, Right
42	111-443	Set Screw, C.H., Special M4×8
43	PS-7716	Shaft
44	PS-7702	Score Board
45	122-073	Wood Screw, F.H. Phill. 3.1×13
46	90793	Lamp Socket
47	S-91568	Bulb, 6V, 0.3A
48	111-192	M. Screw, C.H. M3×8
49	133-029	Hex. Nut M3
50	PS-7721	Holding Stay
51	PS-7714	Side Plate, Left
52	PS-7715	Explosion Lamp Bracket
53	S-90821	Bulb, 6-8V
54	PS-7722	Holding Stay, Left

SEGA PARTS CATALOG



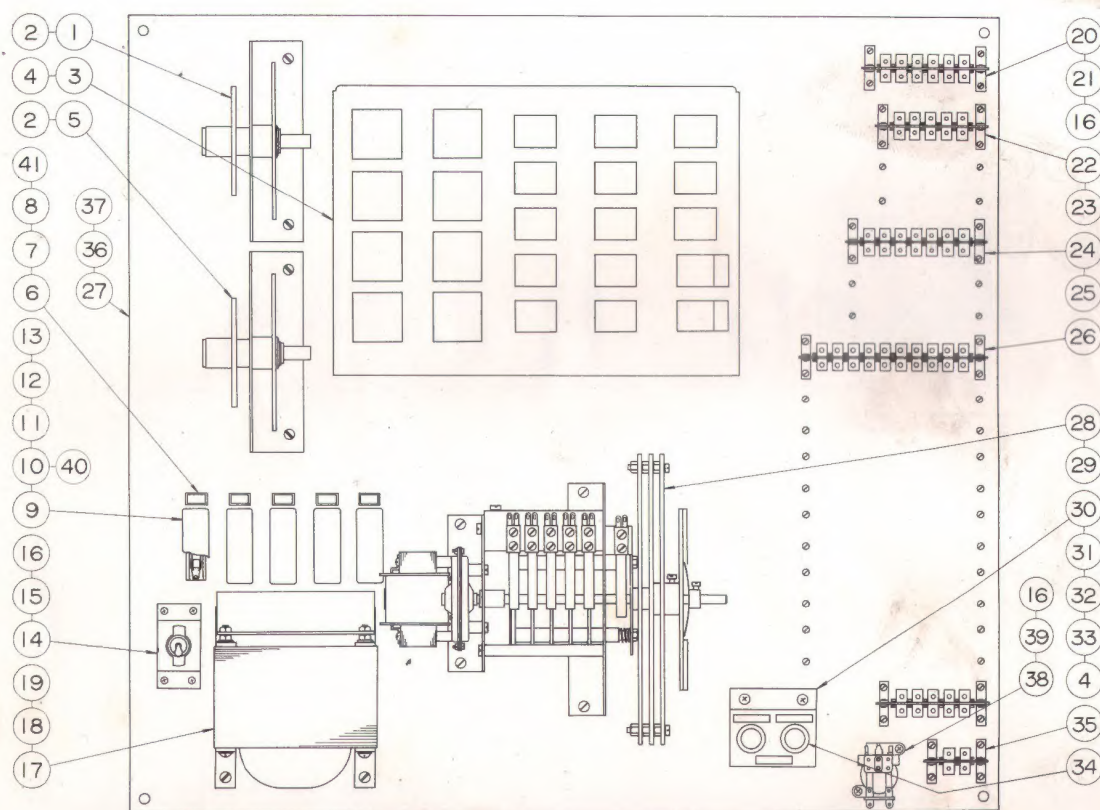
Item	Part No.	Description
1	PS-8705	Panel Guide, Side
2	122-095	Wood Screw, F.H. Phill. 2.4×6.3
3	PS-8707	Illumination Board
4	PS-8704	Panel Guide, Upper
5	PS-8703	Lamp Housing
6	122-110	Wood Screw, R.H. Phill. 3.5×25
7	PS-8702	T. Edge, 2 Grooves, Aluminum 19×10.5
8	S-90264	Socket, Fluorescent, Starter, Bayonet Type
9	S-90244	Starter, Fluorescent Bayonet Type, FG-1P
10	122-080	Wood Screw, R.H. Phill. 3.1×16
11	91534	Ballast Coil, 240V, 15W 50 Cycles, Strip Type
12	122-080	Wood Screw, R.H. Phill. 3.1×16
13	144-070	Flat Washer M3.5
14	PS-8701	Light Box
15	S-91360	Speaker, 8.4 cm, 8 Ohm
16	122-004	Wood Screw, R.H. Phill. 3.5×16
17	144-078	Flat Washer M4
18	PS-8706	Edge, Light Box
19	122-076	Wood Screw, F.H. Phill. 3.1×10
20	91531	Lamp Socket Ass'y
21	S-90158	Bulb, 6V #55
22	122-064	Wood Screw, R.H. Phill. 3.1×13
23	S-90260	Socket, Fluorescent Light, Spring Type
24	S-90201	Fluorescent Light, 15W
25	111-323	M. Screw, C.H. M4×32

Item	Part No.	Description
26	133-045	Square Nut M4-8.5×2
27	144-078	Flat Washer M4
28	S-91540	Speaker 20cm
29	122-109	Wood Screw, R.H. Phill. 4.5×20
30	144-173	Flat Washer, Small Type M4.5
31	PS-8710	Speaker Board, Small
	PS-8711	Hole Cover
	122-004	Wood Screw, R.H. Phill. 3.5×16
	PS-8708	Speaker Board, Large
	PS-8709	Speaker Guard Plate
	122-110	Wood Screw, R.H. Phill. 3.5×25
	144-078	Flat Washer M4



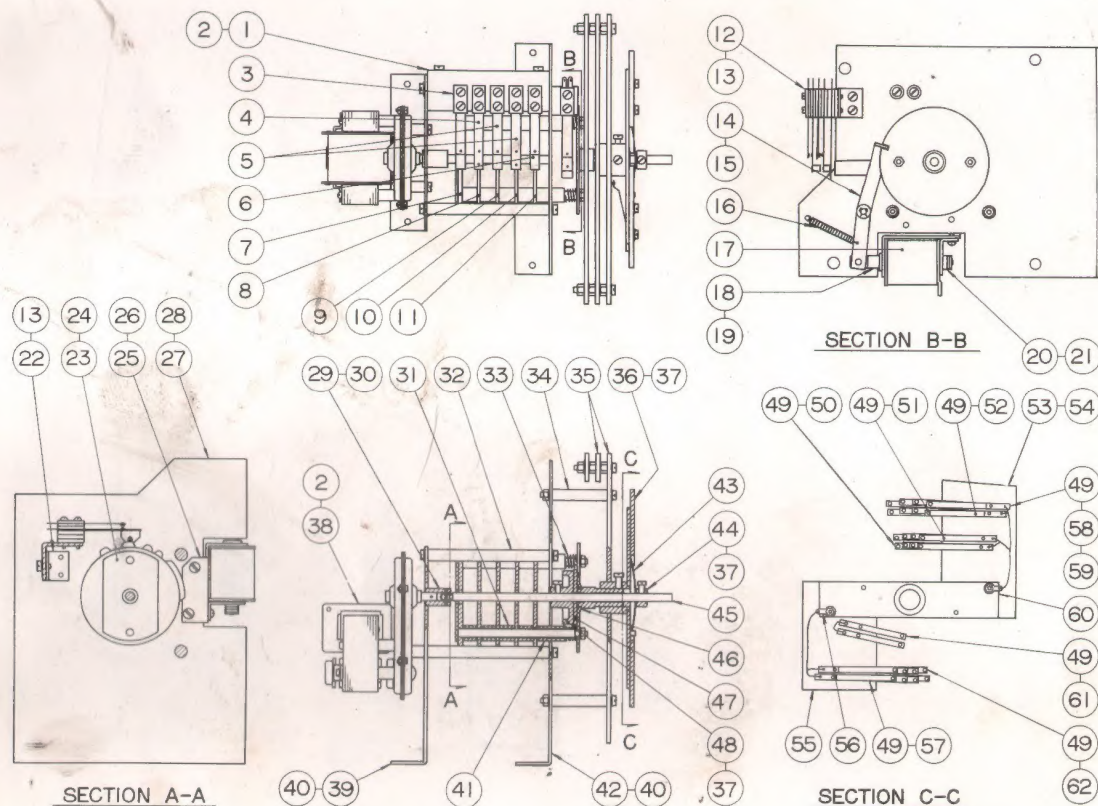
Item	Part No.	Description
1	RM-2065	Switch Actuator
2	S-91420	Switch, Micro Type
3	122-120	Wood Screw, R.H. Phill. 2.7×20
4	PS-4707	Electrical Unit Ass'y, #1 (See page 17 for details)
5	111-383	Carriage Bolt M6×35
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6
6	OL-1003	Connector Bracket
7	S-91149-1	Socket, Block Type, 2P w/Screw, Nut
8	S-91149-2	Plug, Block Type, 2P
9	122-085	Wood Screw, R.H. Phill. 3.5×13
10	PS-1723	Chevron Angle, Cadet, 1240
11	122-074	Wood Screw, R.H. Phill. 4.1×13
	144-122	Flat Washer 4.4-16×1.6
12	PS-4701	Case Ass'y (See details)
13	PS-4702	Case, Bottom
14	PS-4729	Electrical Unit Ass'y, #2 (See page 20 for details)
15	PS-4705	Hinge
16	111-287	Carriage Bolt, Chromed M5×22 S=17
	133-033	Hex. Nut M5
	144-105	Flat Washer M5
17	PS-4704	Guide Plate
18	122-042	Wood Screw, R.H. Phill. 3.1×10
19	PS-4706	Lid Plate
20	122-042	Wood Screw, R.H. Phill. 3.1×10
	144-057	Flat Washer M3

Item	Part No.	Description
21	PS-4703	Case, Lid
22	S-80213-1	Toggle Hook, Hook
23	122-076	Wood Screw, F.H., Phill. 3.1×10



Item	Part No.	Description
1	PS-4722	Shot, Step-Up Unit Ass'y (See page 19 for details)
2	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-078	Flat Washer M4
3	PS-4724	Relay Unit Ass'y (See page 19 for details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-4718	Score Step-Up Unit Ass'y (See page 19 for details)
6	80426	Sticker, 5 Ampere
7	80423	Sticker, 1 Ampere
8	80428	Sticker, 10 Ampere
9	S-91164	Fuse Holder w/Cover 250V-10A
10	S-90661	Fuse, 5 Ampere, 6.4φ×30mm
11	S-90645	Fuse, 1 Ampere, 6.4φ×30mm
12	S-90655	Fuse, 10 Ampere, 6.4φ×30mm
13	122-089	Wood Screw, R.H. Phill. 4.1×25
14	PS-4745	Switch Bracket
15	S-91390	Switch Toggle, SP-ST 15A
16	122-064	Wood Screw, R.H. Phill. 3.1×13
17	91537	Power Transformer, 100~240V 7V 10A, 6-50V 5A
18	PS-4743	Cover Transformer
19	111-309	M. Screw, C.H. M5×18
	133-074	T-Nut M5
	144-105	Flat Washer M5
	133-017	Hex. Nut M4
20	20SS-12	Socket, Strip Type, 12P

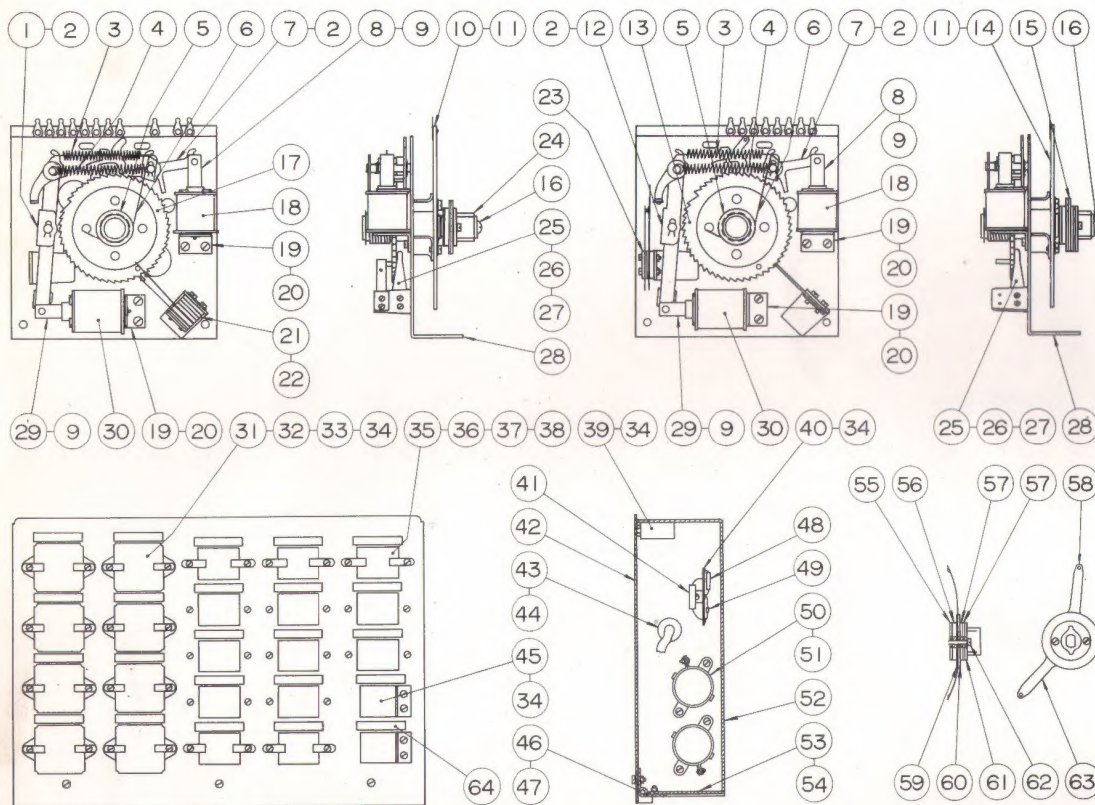
Item	Part No.	Description
21	20SP-12	Plug, Strip Type, 12P
22	20SS-10	Socket, Strip Type, 10P
23	20SP-10	Plug, Strip Type, 10P
24	20SS-14	Socket, Strip Type, 14P
25	20SP-14	Plug, Strip Type, 14P
26	20SS-20	Socket, Strip Type, 20P
27	PS-4708	Base, Electrical Unit, #1
28	PS-4709	Timer & Flasher Unit Ass'y (See page 18 for details)
29	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-105	Flat Washer M5
30	PS-4744	Switch Bracket, Double
31	80582	Sticker, Shot Switch
32	80581	Sticker, Start Switch
33	80580	Sticker, Test Switch
34	S-91206	Switch, Push Button, Baby Type
35	20SS-4	Socket, Strip Type, 4P
36	S-91293	Resistor, 8-16 Ohm 10W, Wire Round, w/Bracket
37	S-90914	Condenser, 100 MFD, 10WV
38	80491	Sticker, Safety Relay
39	S-91579	Safety Relay
40	S-91151	Fuse, 8 Ampere 6.4φ×30mm
41	80427	Sticker, 8 Ampere



Item	Part No.	Description
1	PS-4105	Cam Switch Bracket
2	111-201	M. Screw, C.H. M4×6
3	144-167	Lock Washer, Ext. M4
4	PS-4716	Cam Switch Ass'y #1
5	PS-4119	Cam Switch Ass'y, #2
6	PS-4118	Cam Switch Ass'y, #1, 3, 5
7	PS-4717	Cam Switch Ass'y, #2
8	PS-4715	Cam #1
9	PS-4109	Cam #3
10	PS-4110	Cam #4
11	PS-4111	Cam #5
12	PS-4108	Cam #2
13	PS-4121	Timer Switch Ass'y
14	111-195	M. Screw, C.H. M3×6
15	144-135	Lock Washer, Ext. M3
16	144-172	E Washer 3m/m
17	144-102	E Washer 4m/m
18	144-098	Flat Washer, Small Type M5
19	6U-107	Extension Spring
20	201C07	Coil, Ascot JP Flasher Unit
21	90780	Step-UP Plunger
22	90781	Plunger Ring
23	90071	Coil Stop
24	111-023	M. Screw, R.H. #6-32×6.4
25	144-166	Lock Washer, Ext. M3.5
26	PS-4104	Bracket Angle
27	PS-4106	Cam Retainer

Item	Part No.	Description
28	144-078	Flat Washer M4
29	133-062	Nylon Nut 4m/m
30	PS-4129	Coil Bracket
31	111-201	M. Screw, C.H. M4×6
32	144-078	Flat Washer M4
33	144-167	Lock Washer, Ext. M4
34	PS-4712	Timer & Flasher Disc Ass'y
35	111-257	M. Screw, C.H. M4×25
36	111-499	M. Screw, C.H. M4×50
37	133-017	Hex. Nut M4
38	144-078	Flat Washer M4
39	144-167	Lock Washer, Ext. M4
40	PS-4116	Connection Sleeve
41	155-026	Roll Pin 2×12m/m
42	PS-4112	Spacer Tube
43	PS-4103	Spacer Post
44	PS-4114	Compression Spring
45	PS-4123	Spacer Tube
46	PS-4128	Terminal Plate
47	PS-4713	Brush Arm Ass'y, Timer & Flasher Unit (See details)
48	111-443	Set Screw, C.H., Special M4×8
49	91218	Motor, 20 RPM, 240V, 50 Cycle
50	PS-4102X	Timer Unit Motor Bracket
51	111-203	M. Screw, C.H. M4×10
52	144-078	Flat Washer M4
53	144-167	Lock Washer, Ext. M4
54	PS-4113	Spacer Tube

Item	Part No.	Description
55	PS-4101X	Timer Unit Disc Bracket Ass'y
56	AT-8105	Brush Arm Tension Spring
57	AT-8106	Timer Shaft Collar
58	PS-4117	Shaft
59	PS-4115	Stop Disc Ass'y
60	AT-8103	Leather, Clutch Disc
61	AT-8102	Clutch Pulley
62	90023	Contact Point, Half Round
63	91209	Contact Blade, C
64	91210	Contact Blade, D
65	91213	Contact Blade, G
66	PS-4127	Blade Retainer
67	111-192	M. Screw, C.H. M3×8
68	111-196	M. Screw, C.H. M3×10
69	133-029	Hex. Nut M3
70	144-057	Flat Washer M3
71	PS-4714	Blade Retainer, Short
72	S-90465	Terminal Lug, Tie Point Type 13×0.4m/m
73	91212	Contact Blade, F
74	91214	Contact Blade, H
75	166-072	Hollow Rivet, Thin Head, Brass 2×4.5
76	PS-4126	Contact Arm Retainer Ass'y
77	91208	Contact Blade, Short
78	91211	Contact Blade, E



Item	Part No.	Description
1	91250	Step-Up Arm Ass'y
2	155-036	Hair Clip, Standard 4×12×0.65
3	91252	Extension Spring
4	91253	Extension Spring
5	144-206	Circular External Ring M18
6	91254	Reset Torsion Spring
7	91251	Index Pawl
8	91256	Reset Plunger
9	90781	Plunger Ring
10	PS-4401	Shot, Contact Disc Ass'y
11	111-202	M. Screw, C.H. M4×8
12	144-078	Flat Washer M4
13	91505	Step-Up Arm Ass'y
14	91277	Step-Up Gear, 6 Step-Up
15	PS-4719	Score Contact Disc Ass'y
16	PS-4720	Score Wiper Blade Ass'y (See details)
17	122-114	Tapping Screw, No. 1 T.H. Phill. 4×15
18	144-122	Flat Washer 4.4-16×1.6
19	91278	Step-Up Gear, 7 Step-Up
20	218C015	Coil, Reset
21	91255	Plunger Stopper Ass'y
22	111-363	M. Screw, C.H. M3.5×6
23	144-166	Lock Washer, Ext. M3.5
24	PS-4723	Switch Ass'y
25	91273	Blade Washer
26	PS-4721	Switch Ass'y
27	PS-4402	Shot, Wiper Blade Ass'y
28	91258	Spring Stop
29	90563	Switch End Plate
30	111-195	M. Screw, C.H. M3×6
31	144-135	Lock Washer, Ext. M3
32	91249	Base Plate Ass'y

Item	Part No.	Description
29	91257	Step-Up Plunger
30	219C07	Coil, Step-Up
31	S-91545-1	Relay, AC 50V Plug In Type
32	S-91545-2	Socket
33	S-91545-3	Clamp, for Relay
34	111-194	M. Screw, C.H. M3×5
35	144-135	Lock Washer, Ext. M3
36	S-91546-1	Relay, AC, 50V Plug In Type
37	S-91546-2	Socket
38	S-91546-3	Clamp, for Relay
39	111-194	M. Screw, C.H. M3×5
40	S-80565	Magnet Catch
41	S-90860	Terminal Plate, 1L, 4P
42	S-91451	Resistor, 5 Ohm 1W Wire Wound
43	PS-4726	Relay Base
44	S-91544-1	Socket, 9P
45	S-91544-2	Plug, 9P
46	S-91346	Relay, Miniature Type 2T
47	PS-4727	Hinge
48	111-195	M. Screw, C.H. M3×6
49	133-029	Hex. Nut M3
50	144-135	Lock Washer, Ext. M3
51	111-219	M. Screw, C.H. M3×6
52	S-91551	Resistor, 20 Ohm, 1/2W
53	S-91314	Rectifier, Silicon Diode
54	S-90490	Condenser, 500μF, 50W. V. Electrolytic Can
55	111-194	M. Screw, C.H. M3×5
56	144-135	Lock Washer, Ext. M3
57	144-057	Flat Washer M3
58	PS-4725	Chassis
59	PS-4728	Hinge Mounting Plate
60	111-201	M. Screw, C.H. M4×6
61	144-167	Lock Washer, Ext. M4

Item	Part No.	Description
55	91269	Disc Washer, C
56	91268	Blade Guide
57	91265	Wiper Blade Washer
58	91262	Wiper Blade, A
59	91267	Slip Ring
60	91266	Disc Washer, B
61	91264	Disc Washer, A
62	111-191	M. Screw, C.H. M3×12
63	144-135	Lock Washer, Ext. M3
64	91263	Wiper Blade, B
65	80578	Sticker, Speaker Relay
66	80566	Sticker, Explosion Relay, A
67	80567	Sticker, Explosion Relay, B
68	80568	Sticker, Explosion Relay, C
69	80569	Sticker, Target Drop Relay
70	80570	Sticker, Start Relay, A
71	80571	Sticker, Shot Relay, A
72	80572	Sticker, Game Relay, A
73	80573	Sticker, Extra Shot Relay
74	80574	Sticker, Target Hit Relay
75	80575	Sticker, Course Select Relay, A
76	80576	Sticker, Course Select Relay, B
77	80577	Sticker, Course Select Relay, C
78	80579	Sticker, Amplifier Relay
79	80588	Sticker, Start Relay, B
80	80589	Sticker, Shot Relay, B
81	80590	Sticker, Game Relay, B
82	80591	Sticker, Course Select Relay, D
83	80592	Sticker, Explosion Relay, D
84	80593	Sticker, Explosion Relay, E
85	80594	Sticker, Explosion Relay, F